

* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 09:30:58 ON 09 DEC 2008

=> fil .bec

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.63

0.63

FILES 'MEDLINE, SCISEARCH, LIFESCI, BIOTECHDS, BIOSIS, EMBASE, HCAPLUS, NTIS,
ESBIOBASE, BIOTECHNO, WPIDS' ENTERED AT 09:32:46 ON 09 DEC 2008
ALL COPYRIGHTS AND RESTRICTIONS APPLY. SEE HELP USAGETERMS FOR DETAILS.

11 FILES IN THE FILE LIST

=> s xylanase?(10a)(thermophil? or hyperthermo? or thermotol? or thermostab?)

FILE 'MEDLINE'

2135 XYLANASE?

11292 THERMOPHIL?

2738 HYPERTHERMO?

2363 THERMOTOL?

7943 THERMOSTAB?

L1 228 XYLANASE?(10A)(THERMOPHIL? OR HYPERTHERMO? OR THERMOTOL? OR THER
MOSTAB?)

FILE 'SCISEARCH'

4817 XYLANASE?

18911 THERMOPHIL?

3726 HYPERTHERMO?

4260 THERMOTOL?

11335 THERMOSTAB?

L2 497 XYLANASE?(10A)(THERMOPHIL? OR HYPERTHERMO? OR THERMOTOL? OR THER
MOSTAB?)

FILE 'LIFESCI'

2306 XYLANASE?

10538 THERMOPHIL?

1990 HYPERTHERMO?

1514 THERMOTOL?

5018 THERMOSTAB?

L3 304 XYLANASE?(10A)(THERMOPHIL? OR HYPERTHERMO? OR THERMOTOL? OR THER
MOSTAB?)

FILE 'BIOTECHDS'

2913 XYLANASE?

6340 THERMOPHIL?

527 HYPERTHERMO?

539 THERMOTOL?

7492 THERMOSTAB?

L4 390 XYLANASE?(10A)(THERMOPHIL? OR HYPERTHERMO? OR THERMOTOL? OR THER
MOSTAB?)

FILE 'BIOSIS'

5090 XYLANASE?

25359 THERMOPHIL?

3225 HYPERTHERMO?

4034 THERMOTOL?

13536 THERMOSTAB?

L5 449 XYLANASE?(10A)(THERMOPHIL? OR HYPERTHERMO? OR THERMOTOL? OR THER
MOSTAB?)

FILE 'EMBASE'

```

        2028 XYLANASE?
        11487 THERMOPHIL?
        2457 HYPERTHERMO?
        2010 THERMOTOL?
        16024 THERMOSTAB?
L6         296 XYLANASE?(10A) (THERMOPHIL? OR HYPERTHERMO? OR THERMOTOL? OR THER
        MOSTAB?)

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FILE 'HCAPLUS'

```

        8813 XYLANASE?
        24182 THERMOPHIL?
        3560 HYPERTHERMO?
        3228 THERMOTOL?
        23435 THERMOSTAB?
L7         730 XYLANASE?(10A) (THERMOPHIL? OR HYPERTHERMO? OR THERMOTOL? OR THER
        MOSTAB?)

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FILE 'NTIS'

```

        51 XYLANASE?
        500 THERMOPHIL?
        33 HYPERTHERMO?
        45 THERMOTOL?
        201 THERMOSTAB?
L8         7 XYLANASE?(10A) (THERMOPHIL? OR HYPERTHERMO? OR THERMOTOL? OR THER
        MOSTAB?)

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FILE 'ESBIOBASE'

```

        2261 XYLANASE?
        8032 THERMOPHIL?
        2413 HYPERTHERMO?
        1625 THERMOTOL?
        4910 THERMOSTAB?
L9         299 XYLANASE?(10A) (THERMOPHIL? OR HYPERTHERMO? OR THERMOTOL? OR THER
        MOSTAB?)

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FILE 'BIOTECHNO'

```

        1496 XYLANASE?
        6914 THERMOPHIL?
        1350 HYPERTHERMO?
        1034 THERMOTOL?
        6565 THERMOSTAB?
L10        215 XYLANASE?(10A) (THERMOPHIL? OR HYPERTHERMO? OR THERMOTOL? OR THER
        MOSTAB?)

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FILE 'WPIDS'

```

        1463 XYLANASE?
        3310 THERMOPHIL?
        160 HYPERTHERMO?
        221 THERMOTOL?
        6228 THERMOSTAB?
L11        50 XYLANASE?(10A) (THERMOPHIL? OR HYPERTHERMO? OR THERMOTOL? OR THER
        MOSTAB?)

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TOTAL FOR ALL FILES

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L12        3465 XYLANASE?(10A) (THERMOPHIL? OR HYPERTHERMO? OR THERMOTOL? OR THER
        MOSTAB?)

```

=> s xylanase?(10a)alkali?

FILE 'MEDLINE'

```

        2135 XYLANASE?
        107927 ALKALI?
L13        80 XYLANASE?(10A)ALKALI?

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FILE 'SCISEARCH'
    4817 XYLANASE?
    167036 ALKALI?
L14      203 XYLANASE?(10A)ALKALI?

FILE 'LIFESCI'
    2306 XYLANASE?
    28149 ALKALI?
L15      127 XYLANASE?(10A)ALKALI?

FILE 'BIOTECHDS'
    2913 XYLANASE?
    10597 ALKALI?
L16      169 XYLANASE?(10A)ALKALI?

FILE 'BIOSIS'
    5090 XYLANASE?
    151124 ALKALI?
L17      173 XYLANASE?(10A)ALKALI?

FILE 'EMBASE'
    2028 XYLANASE?
    93130 ALKALI?
L18      109 XYLANASE?(10A)ALKALI?

FILE 'HCAPLUS'
    8813 XYLANASE?
    596189 ALKALI?
    444012 ALK
    26281 ALKY
    897361 ALKALI?
            (ALKALI? OR ALK OR ALKY)
L19      388 XYLANASE?(10A)ALKALI?

FILE 'NTIS'
    51 XYLANASE?
    13250 ALKALI?
L20      2 XYLANASE?(10A)ALKALI?

FILE 'ESBIOBASE'
    2261 XYLANASE?
    32350 ALKALI?
L21      141 XYLANASE?(10A)ALKALI?

FILE 'BIOTECHNO'
    1496 XYLANASE?
    21300 ALKALI?
L22      83 XYLANASE?(10A)ALKALI?

FILE 'WPIDS'
    1463 XYLANASE?
    321560 ALKALI?
L23      79 XYLANASE?(10A)ALKALI?

TOTAL FOR ALL FILES
L24      1554 XYLANASE?(10A) ALKALI?

=> s l12 and l24
FILE 'MEDLINE'
L25      23 L1 AND L13

```

FILE 'SCISEARCH'
L26 69 L2 AND L14

FILE 'LIFESCI'
L27 36 L3 AND L15

FILE 'BIOTECHDS'
L28 46 L4 AND L16

FILE 'BIOSIS'
L29 48 L5 AND L17

FILE 'EMBASE'
L30 33 L6 AND L18

FILE 'HCAPLUS'
L31 89 L7 AND L19

FILE 'NTIS'
L32 0 L8 AND L20

FILE 'ESBIOBASE'
L33 47 L9 AND L21

FILE 'BIOTECHNO'
L34 25 L10 AND L22

FILE 'WPIDS'
L35 6 L11 AND L23

TOTAL FOR ALL FILES
L36 422 L12 AND L24

=> s l36 not 2004-2008/py
FILE 'MEDLINE'
3254962 2004-2008/PY
(20040000-20089999/PY)
L37 13 L25 NOT 2004-2008/PY

FILE 'SCISEARCH'
6074569 2004-2008/PY
(20040000-20089999/PY)
L38 42 L26 NOT 2004-2008/PY

FILE 'LIFESCI'
776856 2004-2008/PY
L39 21 L27 NOT 2004-2008/PY

FILE 'BIOTECHDS'
119822 2004-2008/PY
L40 33 L28 NOT 2004-2008/PY

FILE 'BIOSIS'
2845241 2004-2008/PY
L41 28 L29 NOT 2004-2008/PY

FILE 'EMBASE'
2810797 2004-2008/PY
L42 18 L30 NOT 2004-2008/PY

FILE 'HCAPLUS'
6593747 2004-2008/PY

L43 51 L31 NOT 2004-2008/PY

FILE 'NTIS'

81634 2004-2008/PY

L44 0 L32 NOT 2004-2008/PY

FILE 'ESBIOBASE'

1609791 2004-2008/PY

L45 27 L33 NOT 2004-2008/PY

FILE 'BIOTECHNO'

586 2004-2008/PY

L46 25 L34 NOT 2004-2008/PY

FILE 'WPIDS'

5682064 2004-2008/PY

L47 3 L35 NOT 2004-2008/PY

TOTAL FOR ALL FILES

L48 261 L36 NOT 2004-2008/PY

=> dup rem l48

PROCESSING COMPLETED FOR L48

L49 89 DUP REM L48 (172 DUPLICATES REMOVED)

=> d tot

L49 ANSWER 1 OF 89 Elsevier BIOBASE COPYRIGHT 2008 Elsevier Science B.V. on
STN

AN 2008108664 ESBIOBASE

TI Molecular characterization of multiple xylanase producing
thermophilic/thermotolerant fungi isolated from
composting materials

AU Sharma M.; Chadha B.S.; Kaur M.; Ghatore S.K.; Saini H.S.

CS B. S. Chadha, Department of Microbiology, Guru Nanak Dev University,
Amritsar, Punjab, India.

E-mail: chadhab@yahoo.com

SO Letters in Applied Microbiology, (2008), 46/5 (526-535), 32 reference(s)
CODEN: LAMIE7 ISSN: 0266-8254 E-ISSN: 1472-765X

DT Journal; Article

CY United Kingdom

LA English

SL English

L49 ANSWER 2 OF 89 SCISEARCH COPYRIGHT (c) 2008 The Thomson Corporation on
STN DUPLICATE 1

TI Thermostable and alkaline-tolerant microbial
cellulase-free xylanases produced from agricultural wastes and
the properties required for use in pulp bleaching bioprocesses: a review
SO PROCESS BIOCHEMISTRY, (30 APR 2003) Vol. 38, No. 9, pp. 1327-1340.
ISSN: 0032-9592.

AU Techapun C; Poosaran N; Watanabe M; Sasaki K (Reprint)

AN 2003:543080 SCISEARCH

L49 ANSWER 3 OF 89 SCISEARCH COPYRIGHT (c) 2008 The Thomson Corporation on
STN

TI Production of xylanases from rice bran by Streptomyces actuosus A-151

SO ENZYME AND MICROBIAL TECHNOLOGY, (2 DEC 2003) Vol. 33, No. 7, pp. 917-925.
ISSN: 0141-0229.

AU Wang S L (Reprint); Yen Y H; Shih I L; Chang A C; Chang W T; Wu W C; Chai
Y D

AN 2003:1069584 SCISEARCH

L49 ANSWER 4 OF 89 BIOSIS COPYRIGHT (c) 2008 The Thomson Corporation on STN
 TI Characterization of a family 11 xylanase from *Bacillus subtilis* B230 used
 for paper bleaching.
 SO Acta Crystallographica Section D Biological Crystallography, (April 2003)
 Vol. 59, No. 4, pp. 627-636. print.
 ISSN: 0907-4449.
 AU Oakley, Aaron J.; Heinrich, Tatjana; Thompson, Colin A.; Wilce, Matthew C.
 J. [Reprint Author]
 AN 2003:253581 BIOSIS

L49 ANSWER 5 OF 89 SCISEARCH COPYRIGHT (c) 2008 The Thomson Corporation on
 STN
 TI Effect of *Bacillus circulans* D1 thermostable xylanase
 on biobleaching of eucalyptus kraft pulp
 SO APPLIED BIOCHEMISTRY AND BIOTECHNOLOGY, (SPR 2003) Vol. 105, pp. 393-401.
 ISSN: 0273-2289.
 AU Bocchini D A; Damiano V B; Gomes E; Da Silva A (Reprint)
 AN 2003:398916 SCISEARCH

L49 ANSWER 6 OF 89 HCAPLUS COPYRIGHT 2008 ACS on STN
 TI Application of thermotolerant and alkaline-tolerant
 xylanase produced from agricultural wastes for pulp bleaching
 process and reductions of amounts of chlorine compounds in wastewater
 SO Mizu Shori Gijutsu (2003), 44(6), 271-278
 CODEN: MSYGAO; ISSN: 0026-7015
 AU Sasaki, Ken; Techapun, Charin; Poosaran, Niyatat
 AN 2003:487363 HCAPLUS
 DN 139:135090

L49 ANSWER 7 OF 89 HCAPLUS COPYRIGHT 2008 ACS on STN
 TI Advances in alkaline and thermophilic
 xylanases
 SO Zhongguo Shengwu Gongcheng Zazhi (2003), 23(7), 72-75, 88
 CODEN: ZSGZAW; ISSN: 1671-8135
 AU Xie, Fuhong; Li, Wenpeng; Zhang, Keqin
 AN 2004:313894 HCAPLUS
 DN 141:67100

L49 ANSWER 8 OF 89 SCISEARCH COPYRIGHT (c) 2008 The Thomson Corporation on
 STN
 DUPLICATE 2
 TI Overproduction of an alkali- and thermo-stable xylanase
 in tobacco chloroplasts and efficient recovery of the enzyme
 SO MOLECULAR BREEDING, (JAN 2003) Vol. 11, No. 1, pp. 59-67.
 ISSN: 1380-3743.
 AU Leelavathi S; Gupta N; Maiti S; Ghosh A; Reddy V S (Reprint)
 AN 2003:142329 SCISEARCH

L49 ANSWER 9 OF 89 BIOTECHDS COPYRIGHT 2008 THOMSON REUTERS on STN
 TI Bleaching of chemical pulp involves, exposing chemical pulp to acidic
 bleaching stage to produce partially bleached pulp and treating with
 thermophilic, alkalophilic xylanase in alkaline
 extraction stage at preset condition;
 pulp bleaching using recombinant enzyme
 AU TOLAN J; POPOVICI C; FOODY P J
 AN 2003-01501 BIOTECHDS
 PI WO 2002052100 4 Jul 2002

L49 ANSWER 10 OF 89 BIOTECHDS COPYRIGHT 2008 THOMSON REUTERS on STN
 TI Novel xylanase activity protein, useful in bleaching process of pulp and
 in food and animal feed industry, has enhanced thermostability and
 alkalophilicity;

recombinant enzyme production via plasmid expression useful for animal feedstuff

AU BENTZIEN J; DAHIYAT B
AN 2003-01486 BIOTECHDS
PI WO 2002038746 16 May 2002

- L49 ANSWER 11 OF 89 MEDLINE on STN DUPLICATE 3
TI Thermostable and alkaline-tolerant cellulase-free
xylanase produced by thermotolerant *Streptomyces* sp.
Ab106.
SO Journal of bioscience and bioengineering, (2002) Vol. 93, No. 4, pp.
431-3.
Journal code: 100888800. ISSN: 1389-1723.
AU Techapun Charin; Charoenrat Thanakorn; Poosaran Naiyatat; Watanabe
Masanori; Sasak Ken
AN 2005557533 MEDLINE
- L49 ANSWER 12 OF 89 SCISEARCH COPYRIGHT (c) 2008 The Thomson Corporation on
STN
TI Employing chimeric xylanases to identify regions of an
alkaline xylanase participating in enzyme activity at
basic pH
SO JOURNAL OF BIOSCIENCE AND BIOENGINEERING, (NOV 2002) Vol. 94, No. 5, pp.
395-400.
ISSN: 1389-1723.
AU Nishimoto M; Kitaoka M (Reprint); Hayashi K
AN 2003:96848 SCISEARCH
- L49 ANSWER 13 OF 89 SCISEARCH COPYRIGHT (c) 2008 The Thomson Corporation on
STN
TI Enzymatic properties of a neutral endo-1,3(4)-beta-xylanase Xyl II from
Bacillus subtilis
SO JOURNAL OF BIOTECHNOLOGY, (11 APR 2002) Vol. 94, No. 3, pp. 265-275.
ISSN: 0168-1656.
AU Sa-Pereira P (Reprint); Costa-Ferreira M; Aires-Barros M R
AN 2002:276532 SCISEARCH
- L49 ANSWER 14 OF 89 SCISEARCH COPYRIGHT (c) 2008 The Thomson Corporation on
STN DUPLICATE 4
TI Cellulase-free thermostable alkaline xylanase
from thermophilic and alkalophilic *Bacillus* sp JB-99
SO JOURNAL OF MICROBIOLOGY AND BIOTECHNOLOGY, (FEB 2002) Vol. 12, No. 1, pp.
153-156.
ISSN: 1017-7825.
AU Johnvesly B; Virupakshi S; Patil G N; Ramalingam; Naik G R (Reprint)
AN 2002:241601 SCISEARCH
- L49 ANSWER 15 OF 89 MEDLINE on STN DUPLICATE 5
TI Engineering of multiple arginines into the Ser/Thr surface of *Trichoderma*
reesei endo-1,4-beta-xylanase II increases the
thermotolerance and shifts the pH optimum towards alkaline
pH.
SO Protein engineering, (2002 Feb) Vol. 15, No. 2, pp. 141-5.
Journal code: 8801484. ISSN: 0269-2139.
AU Turunen Ossi; Vuorio Mika; Fenel Fred; Leisola Matti
AN 2002184634 MEDLINE
- L49 ANSWER 16 OF 89 MEDLINE on STN DUPLICATE 6
TI The endoxylanases from family 11: computer analysis of protein sequences
reveals important structural and phylogenetic relationships.
SO Journal of biotechnology, (2002 May 9) Vol. 95, No. 2, pp. 109-31.
Journal code: 8411927. ISSN: 0168-1656.

AU Sapag Amalia; Wouters Johan; Lambert Christophe; de Ioannes Pablo;
Eyzaguirre Jaime; Depiereux Eric
AN 2002179500 MEDLINE

L49 ANSWER 17 OF 89 SCISEARCH COPYRIGHT (c) 2008 The Thomson Corporation on
STN DUPLICATE 7
TI Optimization of thermostable and alkaline-tolerant
cellulase-free xylanase production from agricultural waste by
thermotolerant *Streptomyces* sp Ab106, using the central composite
experimental design
SO BIOCHEMICAL ENGINEERING JOURNAL, (NOV 2002) Vol. 12, No. 2, pp. 99-105.
ISSN: 1369-703X.
AU Techapun C; Charoenrat T; Watanabe M; Sasaki K (Reprint); Poosaran N
AN 2002:870007 SCISEARCH

L49 ANSWER 18 OF 89 HCAPLUS COPYRIGHT 2008 ACS on STN
TI Computer directed High-Throughput Screening for improved enzymatic
catalysis: Towards the rationale design of a thermostable,
alkaliphilic xylanase
SO Abstracts of Papers, 223rd ACS National Meeting, Orlando, FL, United
States, April 7-11, 2002 (2002), CELL-092 Publisher: American Chemical
Society, Washington, D. C.
CODEN: 69CKQP
AU Bentzien, Jorg; Hayes, Robert; Muchhal, Umesh; O'Keefe, Donald; Dahiyat,
Bassil
AN 2002:186502 HCAPLUS

L49 ANSWER 19 OF 89 MEDLINE on STN DUPLICATE 8
TI Properties and application of a partially purified alkaline
xylanase from an alkalophilic fungus *Aspergillus nidulans* KK-99.
SO Bioresource technology, (2002 Oct) Vol. 85, No. 1, pp. 39-42.
Journal code: 9889523. ISSN: 0960-8524.
AU Taneja Kavita; Gupta Saurabh; Kuhad Ramesh Chander
AN 2002397711 MEDLINE

L49 ANSWER 20 OF 89 HCAPLUS COPYRIGHT 2008 ACS on STN
TI In-situ solid-state fermentation and utilization of xylanase in pulp
bleaching
SO Abstracts of Papers, 223rd ACS National Meeting, Orlando, FL, United
States, April 7-11, 2002 (2002), CELL-039 Publisher: American Chemical
Society, Washington, D. C.
CODEN: 69CKQP
AU Szendefy, Judit; Szakacs, George; Christov, Lew
AN 2002:186449 HCAPLUS

L49 ANSWER 21 OF 89 HCAPLUS COPYRIGHT 2008 ACS on STN
TI Use of biological agents for pulping and bleaching in pulp and paper
industry
SO IPPTA (2002), 14(4), 29-31
CODEN: IPPTDO; ISSN: 0379-5462
AU Sapre, M.; Jha, H.; Patil, M. B.; Dhake, J. D.
AN 2003:27382 HCAPLUS
DN 138:370507

L49 ANSWER 22 OF 89 LIFESCI COPYRIGHT 2008 CSA on STN
TI Engineering of multiple arginines into the Ser/Thr surface of *Trichoderma*
reesei endo-1,4-[beta]-xylanase II increases the
thermotolerance and shifts the pH optimum towards alkaline
pH
SO Protein Engineering, (20020200) vol. 15, no. 2, 141.
ISSN: 0269-2139.
AU Turunen, Ossi; Vuorio, Mika; Fenel, Fred; Leisola, Matti

AN 2008:69021 LIFESCI

L49 ANSWER 23 OF 89 HCAPLUS COPYRIGHT 2008 ACS on STN
TI Recombinant Bacillus and fermentation process for preparation of
thermostable alkali-stable xylanase

SO Indian, 35 pp.

CODEN: INXXAP

IN Gupta, Naveen; Ghosh, Amit

AN 2004:869800 HCAPLUS

DN 141:313041

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
IN 185709	A1	20010414	IN 1996-DE2308	19961025

L49 ANSWER 24 OF 89 SCISEARCH COPYRIGHT (c) 2008 The Thomson Corporation on
STN

TI Directed evolution to produce an alkalophilic variant from a
Neocallimastix patriciarum xylanase

SO CANADIAN JOURNAL OF MICROBIOLOGY, (DEC 2001) Vol. 47, No. 12, pp.
1088-1094.

ISSN: 0008-4166.

AU Chen Y L; Tang T Y; Cheng K J (Reprint)

AN 2002:32328 SCISEARCH

L49 ANSWER 25 OF 89 WPIDS COPYRIGHT 2008 THOMSON REUTERS on STN

TI Non naturally occurring XA protein with enhanced thermophilicity
, alkalophilicity or thermostability relative to the naturally
occurring Bacillus circulans xylanase is used in an agent for
bleaching pulp

PI WO 2000068396 A2 20001116 (200066)* EN 114[20]

RW: AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW NL
OA PT SD SE SL SZ TZ UG ZW

W: AE AG AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ DE DK DM DZ
EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK
LR LS LT LU LV MA MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI
SK SL TJ TM TR TT TZ UA UG UZ VN YU ZA ZW

AU 2000051327 A 20001121 (200112) EN

EP 1179075 A2 20020213 (200219) EN

R: AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT
RO SE SI

JP 2002543791 W 20021224 (200313) JA 156

IN BENTZIEN J M

L49 ANSWER 26 OF 89 SCISEARCH COPYRIGHT (c) 2008 The Thomson Corporation on
STN

TI Purification and partial characterization of a basic xylanase produced by
thermoalkaliphlic Bacillus sp strain TAR-1

SO BIOSCIENCE BIOTECHNOLOGY AND BIOCHEMISTRY, (APR 2000) Vol. 64, No. 4, pp.
887-890.

ISSN: 0916-8451.

AU Takahashi H; Nakai R; Nakamura S (Reprint)

AN 2000:340808 SCISEARCH

L49 ANSWER 27 OF 89 SCISEARCH COPYRIGHT (c) 2008 The Thomson Corporation on
STN DUPLICATE 9

TI Enhanced production, purification and characterisation of a novel
cellulase-poor thermostable, alkalitolerant
xylanase from Bacillus circulans AB 16

SO PROCESS BIOCHEMISTRY, (MAR 2000) Vol. 35, No. 8, pp. 849-856.
ISSN: 0032-9592.

AU Dhillon A; Gupta J K; Khanna S (Reprint)

AN 2000:266722 SCISEARCH

L49 ANSWER 28 OF 89 SCISEARCH COPYRIGHT (c) 2008 The Thomson Corporation on
 STN
 TI Production and characterization of thermostable xylanase
 and pectinase from Streptomyces sp QG-11-3
 SO JOURNAL OF INDUSTRIAL MICROBIOLOGY & BIOTECHNOLOGY, (JUN 2000) Vol. 24,
 No. 6, pp. 396-402.
 ISSN: 1367-5435.
 AU Beg Q K (Reprint); Bhushan B; Kapoor M; Hoondal G S
 AN 2000:616369 SCISEARCH

L49 ANSWER 29 OF 89 SCISEARCH COPYRIGHT (c) 2008 The Thomson Corporation on
 STN
 DUPLICATE 10
 TI Isolation, purification and characterization of xylanase from
 Staphylococcus sp. SG-13 and its application in biobleaching of kraft pulp
 SO JOURNAL OF APPLIED MICROBIOLOGY, (FEB 2000) Vol. 88, No. 2, pp. 325-334.
 ISSN: 1364-5072.
 AU Gupta S; Bhushan B; Hoondal G S (Reprint)
 AN 2000:224873 SCISEARCH

L49 ANSWER 30 OF 89 SCISEARCH COPYRIGHT (c) 2008 The Thomson Corporation on
 STN
 DUPLICATE 11
 TI Production of a thermostable alkali-tolerant
 xylanase from Bacillus circulans AB 16 grown on wheat straw
 SO WORLD JOURNAL OF MICROBIOLOGY & BIOTECHNOLOGY, (JUN 2000) Vol. 16, No. 4,
 pp. 325-327.
 ISSN: 0959-3993.
 AU Dhillon A; Khanna S (Reprint)
 AN 2000:698100 SCISEARCH

L49 ANSWER 31 OF 89 SCISEARCH COPYRIGHT (c) 2008 The Thomson Corporation on
 STN
 DUPLICATE 12
 TI A cellulase-poor, thermostable, alkalitolerant
 xylanase produced by Bacillus circulans AB 16 grown on rice straw
 and its application in biobleaching of eucalyptus pulp
 SO BIORESOURCE TECHNOLOGY, (JUL 2000) Vol. 73, No. 3, pp. 273-277.
 ISSN: 0960-8524.
 AU Dhillon A; Gupta J K; Jauhari B M; Khanna S (Reprint)
 AN 2000:287403 SCISEARCH

L49 ANSWER 32 OF 89 HCAPLUS COPYRIGHT 2008 ACS on STN
 TI A new record of a bacterial alkaline thermostable
 xylanase from an Egyptian soil
 SO Egyptian Journal of Biotechnology (2000), 7, 193-205
 CODEN: EJBIF7; ISSN: 1110-6093
 AU Shabeb, M. S. A.
 AN 2000:194949 HCAPLUS
 DN 133:2286

L49 ANSWER 33 OF 89 SCISEARCH COPYRIGHT (c) 2008 The Thomson Corporation on
 STN
 TI Xylanase activity and thermostabilization during the thermogenic phase of
 industrial composting in aerated trenches
 SO WASTE MANAGEMENT & RESEARCH, (APR 2000) Vol. 18, No. 2, pp. 174-183.
 ISSN: 0734-242X.
 AU Lyon P F; Beffa T (Reprint); Fischer J L; Aragno M
 AN 2000:271416 SCISEARCH

L49 ANSWER 34 OF 89 MEDLINE on STN
 DUPLICATE 13
 TI Homology model of a novel xylanase: molecular basis for high-
 thermostability and alkaline stability.
 SO Journal of biomolecular structure & dynamics, (2000 Aug) Vol. 18, No. 1,

pp. 137-44.

Journal code: 8404176. ISSN: 0739-1102.

AU Mande S S; Gupta N; Ghosh A; Mande S C
AN 2000465734 MEDLINE

L49 ANSWER 35 OF 89 SCISEARCH COPYRIGHT (c) 2008 The Thomson Corporation on
STN DUPLICATE 14

TI Immobilization of alkaliphilic Bacillus sp cells for
xylanase production using batch and continuous culture

SO APPLIED BIOCHEMISTRY AND BIOTECHNOLOGY, (MAY 2000) Vol. 87, No. 2, pp.
95-101.
ISSN: 0273-2289.

AU Mamo G; Gessesse A (Reprint)
AN 2000:607893 SCISEARCH

L49 ANSWER 36 OF 89 SCISEARCH COPYRIGHT (c) 2008 The Thomson Corporation on
STN

TI Electroelution as a simple and fast protein purification method: isolation
of an extracellular xylanase from Bacillus sp CCMI 966

SO ENZYME AND MICROBIAL TECHNOLOGY, (JUL 2000) Vol. 27, No. 1-2, pp. 95-99.
ISSN: 0141-0229.

AU Sa-Pereira P (Reprint); Duarte J; Costa-Ferreira M
AN 2000:486930 SCISEARCH

L49 ANSWER 37 OF 89 MEDLINE on STN DUPLICATE 15

TI Overproduction and characterization of seleno-methionine xylanase T-6.

SO Journal of biotechnology, (2000 Feb 28) Vol. 78, No. 1, pp. 83-6.
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L49 ANSWER 51 OF 89 MEDLINE on STN DUPLICATE 23
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thermophiles.

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L49 ANSWER 55 OF 89 BIOTECHDS COPYRIGHT 2008 THOMSON REUTERS on STN

TI Cloning, sequencing and expression of a thermostable
alkaline-tolerant xylanase from Dictyoglomus
thermophilum Rt46B.1: potential for use as a Kraft pulp
pre-bleaching aid;

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characterization (conference abstract)

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L49 ANSWER 56 OF 89 BIOTECHDS COPYRIGHT 2008 THOMSON REUTERS on STN

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new thermostable alkaline endo-1,4-beta-D-
xylanase (conference abstract)

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 xylanase isolation (conference abstract)
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L49 ANSWER 60 OF 89 HCAPLUS COPYRIGHT 2008 ACS on STN
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 application of molecular genetics to pulp bleaching
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 DN 126:20298
 OREF 126:4171a,4174a

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 e.g. thermophilic bacterium, psychrophilic bacterium, alkalophilic
 bacterium, acidophilic bacterium, halophilic bacterium, barophilic
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L49 ANSWER 64 OF 89 MEDLINE on STN DUPLICATE 27
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 Journal code: 8411927. ISSN: 0168-1656.
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L49 ANSWER 65 OF 89 SCISEARCH COPYRIGHT (c) 2008 The Thomson Corporation on
 STN DUPLICATE 28
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L49 ANSWER 66 OF 89 HCAPLUS COPYRIGHT 2008 ACS on STN
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 DN 127:123139
 OREF 127:23735a,23738a

L49 ANSWER 67 OF 89 HCAPLUS COPYRIGHT 2008 ACS on STN
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 kraft pulp
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 and Fundamental Research, Proceedings of the International Conference on
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 Norman, K. W.
 AN 1996:682870 HCAPLUS
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 OREF 126:4171a,4174a

L49 ANSWER 68 OF 89 HCAPLUS COPYRIGHT 2008 ACS on STN
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 the gene encoding it
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 CODEN: PIXXD2
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 DN 123:106519

OREF 123:18863a,18866a

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9512668	A1	19950511	WO 1994-US12743	19941104
	W: FI, JP, NO				
	RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
EP	728197	A1	19960828	EP 1995-900534	19941104
	R: DE, DK, GB, NL				
FI	9601885	A	19960703	FI 1996-1885	19960503

L49 ANSWER 69 OF 89 SCISEARCH COPYRIGHT (c) 2008 The Thomson Corporation on
STN DUPLICATE 29

TI CHARACTERIZATION OF THE RECOMBINANT XYLANASES IN
ESCHERICHIA-COLI FROM AN ALKALIPHILIC THERMOPHILIC
BACILLUS SP NCIM-59

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L49 ANSWER 70 OF 89 LIFESCI COPYRIGHT 2008 CSA on STN

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albomyces IIS-68

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ISSN: 0032-9592.

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L49 ANSWER 71 OF 89 HCAPLUS COPYRIGHT 2008 ACS on STN

TI Cloning, sequencing and expression of an alkaline-tolerant
xylanase gene from the extreme thermophile Dictyoglomus
thermophilum sp. Rt46B.1. Potential for use as a kraft pulp
pre-bleaching aid

SO International Symposium on Wood and Pulping Chemistry, 8th, Helsinki, June
6-9, 1995 (1995), Volume 2, 397-402 Publisher: Gummerus Kirjapaino Oy,
Jyvaskyla, Finland.

CODEN: 65KDAY

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AN 1997:793354 HCAPLUS

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OREF 128:16660h,16661a

L49 ANSWER 72 OF 89 HCAPLUS COPYRIGHT 2008 ACS on STN

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applications of molecular genetics to pulp bleaching

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A.; Morris, D.

AN 1997:793220 HCAPLUS

DN 128:85647

OREF 128:16645a,16648a

L49 ANSWER 73 OF 89 SCISEARCH COPYRIGHT (c) 2008 The Thomson Corporation on
STN DUPLICATE 30

TI Purification and characterization of a thermophilic
alkaline xylanase from thermoalkaliphilic Bacillus sp
strain TAR-1

SO JOURNAL OF MOLECULAR CATALYSIS B-ENZYMATIC, (4 DEC 1995) Vol. 1, No. 1,
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Horikoshi K
AN 1996:52298 SCISEARCH

L49 ANSWER 74 OF 89 LIFESCI COPYRIGHT 2008 CSA on STN
TI Five thermostable xylanases from Microtetraspora
flexuosa for use in delignification and/or bleaching of pulp
SO (1995) . US Patent 5437992; US Cl. 435/200 435/252.1 435/278 435/822
536/124.
AN 97:5176 LIFESCI

L49 ANSWER 75 OF 89 BIOTECHDS COPYRIGHT 2008 THOMSON REUTERS on STN
TI Thermostable alkaline endo-1,4-beta-D-
xylanase production;
from Bacillus sp., for use in pulping and the paper industry
AN 1994-07122 BIOTECHDS
PI JP 06062839 8 Mar 1994

L49 ANSWER 76 OF 89 BIOTECHDS COPYRIGHT 2008 THOMSON REUTERS on STN
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Bacillus sp. thermostable and alkalistable native
or recombinant endo-1,4-beta-D-xylanase production and
purification for use in the food, feedstuff and pulp industries
AN 1994-05939 BIOTECHDS
PI WO 9404664 3 Mar 1994

L49 ANSWER 77 OF 89 BIOTECHDS COPYRIGHT 2008 THOMSON REUTERS on STN
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thermostable alkaline protease, endo-1,4-beta-D-
xylanase and cellulase production for use in surfactant
composition, lignocellulose pulp treatment, etc.
AN 1994-03564 BIOTECHDS
PI WO 9401532 20 Jan 1994

L49 ANSWER 78 OF 89 HCAPLUS COPYRIGHT 2008 ACS on STN
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alkaliphilic strains of Bacillus spp.
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AU Aono, Rikizo
AN 1995:393677 HCAPLUS
DN 122:233924
OREF 122:42607a,42610a

L49 ANSWER 79 OF 89 SCISEARCH COPYRIGHT (c) 2008 The Thomson Corporation on
STN DUPLICATE 32
TI TCF MILL TRIAL ON SOFTWOOD PULP WITH KORSNAS THERMOSTABLE AND
ALKALINE STABLE XYLANASE T6
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ISSN: 0168-6445.
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AN 1994:207505 SCISEARCH

L49 ANSWER 80 OF 89 SCISEARCH COPYRIGHT (c) 2008 The Thomson Corporation on
STN DUPLICATE 33
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ISOLATED ALKALIPHILIC AND THERMOPHILIC BACILLUS SP
STRAIN TAR-1
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ISSN: 0916-8451.

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L49 ANSWER 81 OF 89 BIOTECHDS COPYRIGHT 2008 THOMSON REUTERS on STN
TI Thermotoga maritima, Thermotoga neopolitana and Thermotoga thermarum
recombinant thermostable endo-1,4-beta-D-xylanase
production and characterization;
application in delignification and bleaching
AN 1993-14743 BIOTECHDS
PI WO 9319171 30 Sep 1993

L49 ANSWER 82 OF 89 MEDLINE on STN DUPLICATE 34
TI Cloning and extracellular expression in Escherichia coli of
xylanases from an alkaliphilic thermophilic
Bacillus sp. NCIM 59.
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Journal code: 7705721. ISSN: 0378-1097.
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AN 1993292908 MEDLINE

L49 ANSWER 83 OF 89 HCAPLUS COPYRIGHT 2008 ACS on STN
TI A thermostable extracellular xylanase from
alkalophilic Bacillus sp. NG-27
SO Biotechnology Letters (1992), 14(11), 1045-6
CODEN: BILED3; ISSN: 0141-5492
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AN 1993:54852 HCAPLUS
DN 118:54852
OREF 118:9716h,9717a

L49 ANSWER 84 OF 89 BIOTECHDS COPYRIGHT 2008 THOMSON REUTERS on STN
TI Production and characterization of a xylanase from a phytopathogenic
fungus, Bipolaris sorokiniana;
alkalophilic, thermostable endo-1,4-beta-D-xylanase
isolation, of potential use in the pulp and paper industry (conference
paper)
SO Prog.Biotechnol.; (1992) 7, 529-33
CODEN: PBITE3
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L49 ANSWER 85 OF 89 BIOTECHDS COPYRIGHT 2008 THOMSON REUTERS on STN
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activities at acidic, neutral, and alkaline pH values;
recombinant endo-1,4-beta-D-xylanase preparation by
thermophilic bacterium gene expression in Thermoanaerobacter
ethanolicus; potential enhanced ethanol production (conference
abstract)
SO Abstr.Gen.Meet.Am.Soc.Microbiol.; (1992) 92 Meet., 312
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AN 1992-09381 BIOTECHDS

L49 ANSWER 86 OF 89 BIOTECHDS COPYRIGHT 2008 THOMSON REUTERS on STN
TI Extremely thermophilic cellulose and hemicellulose degrading bacteria
including isolates of the genus Dictyoglomus;
thermostable endo-1,4-beta-D-xylanase
characterization from Thermoanaerobium sp., Clostridium
thermohydrosulfuricum and Dictyoglomus thermophilum
(conference abstract)
SO Thermophiles Sci.Technol.; (1992) 54

CODEN: 9999R
AU Mathrani I; Sonne-Hansen J; Nielsen P; Ahring B
AN 1994-08890 BIOTECHDS

L49 ANSWER 87 OF 89 HCAPLUS COPYRIGHT 2008 ACS on STN
TI High-molecular weight substance-degrading enzymes-inducing factor and its
gene cloning
SO Jpn. Kokai Tokkyo Koho, 9 pp.
CODEN: JKXXAF
IN Imanaka, Tadayuki; Nishiya, Yoshiaki; Sogabe, Yukihiro
AN 1991:529125 HCAPLUS
DN 115:129125
OREF 115:21997a,22000a

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PI	JP 03061489	A	19910318	JP 1989-194307	19890728
	JP 07067392	B	19950726		

L49 ANSWER 88 OF 89 BIOTECHDS COPYRIGHT 2008 THOMSON REUTERS on STN
TI Production and characterization of xylanase from Bacillus
thermoalkalophilus grown on agricultural wastes;
thermostable endo-1,4-beta-D-xylanase preparation
on rice husk or bagasse culture medium; lignocellulose degradation
SO Appl.Microbiol.Biotechnol.; (1990) 34, 1, 141-44
CODEN: EJABDD
AU Rajaram S; *Varma A
AN 1991-04701 BIOTECHDS

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TI Novel thermostable endo-1,4-beta-D-xylanase
preparation;
purification from Bacillus sp. culture
AN 1990-05323 BIOTECHDS
PI JP 01309684 14 Dec 1989

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